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In re the Application of

Inventors: Hisao KOGA, et al. Art Unit: 2611  
Application No.: 10/669,592  
Filed: September 23, 2003  
For: COMMUNICATION APPARATUS

CERTIFICATION UNDER 37 CFR §1.97(e) (2)

Assistant Commissioner of Patents  
Washington, DC 20231

Dear Sir:

In fulfillment of 37 CFR 1.97(c) (1) and 1.97(e) (2), it is hereby certified that no item of information contained in the attached Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the attached Information Disclosure Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Respectfully submitted,

James E. Ledbetter  
Registration No. 28,732

Date: August 18, 2006

JEL/jpf  
ATTORNEY DOCKET NO. L8612.04115  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re the Application of

Inventors: Hisao KOBE, et al. Art Unit: 2611

Application No.: 10/669,592

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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents  
Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449.

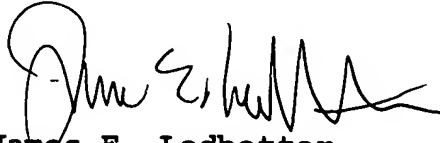
Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

08/21/2006 HALI11 00000119 10669592  
01 FC:1006

100.00 OP

The fee under 37 CFR 1.17(p) is attached.

Respectfully submitted,



James E. Ledbetter  
Registration No. 28,732

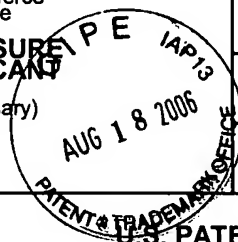
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FORM PTO-1449 U.S. Department of Commerce  
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)



ATTY. DOCKET NO.

**L8612.04115**

SERIAL NO.

**10/669,592**

APPLICANT

**Hisao KOGA, et al.**

FILING DATE

**September 23, 2003**

GROUP

**2611**

**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6 4 7 3 4 0 9	10/2002	Malvar			
	6 4 8 7 5 7 4	11/2002	Malvar			
	6 4 9 6 7 9 5	12/2002	Malvar			

**FOREIGN PATENT DOCUMENTS**

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

J. ALHAVA, et al.; "Adaptive Sine-Modulated/Cosine-Modulated Filter Bank Equalizer for Transmultiplexers," ECCTD'01-European Conference on Circuit Theory and Design, Aug. 28-31, 2001, Espoo, Finland, pp. III-337-340.

A. VIHOLAINEN, et al.; "Implementation of Parallel Cosine And Sine Modulated Filters Banks For Equalized Transmultiplexer System," 2001, IEEE, pp. 3625-3628.

A. VIHOLAINEN, et al.; "Complex Modulated Critically Sampled Filter Banks Based On Cosine And Sine Modulation," Institute of Communications Engineering, Tampere University of Technology, 2002, IEEE, pp. I-833-836.

J. ALHAVA, et al.; "Exponentially-Modulated Filter Bank-Based Transmultiplexer," Tampere University of Technology, 2003, IEEE, pp. IV-233-236.

J. ALHAVA, et al.; "Efficient Implementation of Complex Exponentially-Modulated Filter Banks," Tampere University of Technology, 2003, IEEE, pp. IV-157-160.

Y. YANG, et al.; "DSP Implementation of Low-Complexity Equalizer For Multicarrier Systems," Institute of Communications Engineering, Tampere University of Technology, 2003, IEEE, pp. 271-274.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.